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PATENT  
Docket No.: 19603/441 (CRF D-1593A)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants	:	Barany et al.	)	Examiner:
Patent No.	:	6,027,889	)	K. Horlick
Issued	:	February 22, 2000	)	Art Unit:
Serial No.	:	08/864,473	)	1653
Filed	:	May 28, 1997	)	
For	:	DETECTION OF NUCLEIC ACID SEQUENCE DIFFERENCES USING COUPLED LIGASE DETECTION AND POLYMERASE CHAIN REACTIONS	)	

RECEIVED  
JUL 05 2002  
TECH CENTER 1600/2900

U.S. Patent and Trademark Office  
P.O. Box 2327  
Arlington, VA 22202

Dear Sir:

Transmitted herewith in the above-identified issued patent are:

- Petition For Correction of Inventorship in Patent Under 37 C.F.R. § 1.324 (a).
- Statement of George Barany.
- Statement of Robert P. Hammer.
- Statement of Francis Barany.
- Statement of Matthew Lubin.
- Statement of James A. Severson on Behalf of Cornell Research Foundation, Inc.
- Statement of Anthony L. Strauss on Behalf of Regents of the University of Minnesota.
- Statement of Mani Iyer on Behalf of Board of Supervisors of Louisiana State University and Agricultural and Mechanical College.
- Copy of the assignment from George Barany to Regents of the University of Minnesota.

- [X] Copy of the assignment from Robert P. Hammer to Board of Supervisors of Louisiana State University and Agricultural and Mechanical College.
- [X] A check in the amount of \$130.00 to cover the fee set forth in 37 C.F.R. § 1.20(b).
- [X] The Commissioner is hereby authorized to charge any additional fees or credit any overpayment to Deposit Account No. **14-1138**.

**A duplicate copy of this sheet is enclosed.**

Date: June 26, 2002



Michael L. Goldman  
Registration No. 30,727  
Attorney for Patentees

Nixon Peabody LLP  
Clinton Square, P.O. Box 31051  
Rochester, New York 14603  
Telephone: (585) 263-1304  
Facsimile: (585) 263-1600

PATENT  
Docket No.: 19603/441 (CRF D-1593A)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants	:	Barany et al.	}	Examiner:
Patent No.	:	6,027,889	}	K. Horlick
Issued	:	February 22, 2000	}	Art Unit:
Serial No.	:	08/864,473	}	1653
Filed	:	May 28, 1997	}	
For	:	DETECTION OF NUCLEIC ACID SEQUENCE DIFFERENCES USING COUPLED LIGASE DETECTION AND POLYMERASE CHAIN REACTIONS	}	

**PETITION FOR CORRECTION OF INVENTORSHIP IN PATENT  
UNDER 37 C.F.R. § 1.324(a)**

U.S. Patent and Trademark Office  
P.O. Box 2327  
Arlington, VA 22202

Dear Sir:

Pursuant to 37 C.F.R. § 1.324(a), patentees hereby petition for the addition of George Barany and Robert P. Hammer as co-inventors of the above-identified patent. At the time of filing the above-identified application, George Barany and Robert P. Hammer were erroneously omitted as inventors. As set forth in the attached Statement of George Barany and Statement of Robert Hammer, such error arose without deceptive intent on the part of George Barany and Robert P. Hammer.

This petition is additionally accompanied by the written consent of inventors Francis Barany and Matthew Lubin, the written consent of assignees Cornell Research Foundation, Inc., Regents of the University of Minnesota, and Board of Supervisors of Louisiana State University and Agricultural and Mechanical College, to the correction of

inventorship, and the requisite fee of \$130.00 as set forth in 37 C.F.R. § 1.20(b). Any additional fees may be charged to deposit account 14-1138.

Respectfully submitted,

Date: June 26, 2002



Michael L. Goldman  
Registration No. 30,727  
Attorney for Patentees

Nixon Peabody LLP  
Clinton Square, P.O. Box 31051  
Rochester, New York 14603  
Telephone: (585) 263-1304  
Facsimile: (585) 263-1600

PATENT  
Docket No.: 19603/441 (CRF D-1593A)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants	: Barany et al.	}	Examiner:
Patent No.	: 6,027,889		K. Horlick
Issued	: February 22, 2000		Art Unit:
Serial No.	: 08/864,473		1653
Filed	: May 28, 1997	}	
For	: DETECTION OF NUCLEIC ACID SEQUENCE DIFFERENCES USING COUPLED LIGASE DETECTION AND POLYMERASE CHAIN REACTIONS		

STATEMENT OF GEORGE BARANY

Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

I, GEORGE BARANY, hereby submit this statement in support of patentees' Petition for Correction of Inventorship in Patent Under 37 C.F.R. § 1.324(a). At the time of filing the above-identified patent application, I was erroneously omitted as an inventor. This error arose without deceptive intent on my part.

Date: Feb 6, 2002

  
George Barany

PATENT  
Docket No.: 19603/441 (CRF D-1593A)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants	: Barany et al.	}	Examiner:
Patent No.	: 6,027,889		K. Horlick
Issued	: February 22, 2000		Art Unit:
Serial No.	: 08/864,473		1653
Filed	: May 28, 1997		
For	DETECTION OF NUCLEIC ACID SEQUENCE DIFFERENCES USING COUPLED LIGASE DETECTION AND POLYMERASE CHAIN REACTIONS		

**STATEMENT OF ROBERT P. HAMMER**

Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

I, ROBERT P. HAMMER, hereby submit this statement in support of patentees' Petition for Correction of Inventorship in Patent Under 37 C.F.R. § 1.324(a). At the time of filing the above-identified patent application, I was erroneously omitted as an inventor. This error arose without deceptive intent on my part.

Date: May 26, 2002



Robert P. Hammer

PATENT  
Docket No.: 19603/441 (CRF D-1593A)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants	: Barany et al.	}	Examiner:
Patent No.	: 6,027,889		K. Horlick
Issued	: February 22, 2000		Art Unit: 1653
Serial No.	: 08/864,473		
Filed	: May 28, 1997		
For	DETECTION OF NUCLEIC ACID, SEQUENCE DIFFERENCES USING COUPLED LIGASE DETECTION AND POLYMERASE CHAIN REACTIONS		

STATEMENT OF FRANCIS BARANY

Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

I, FRANCIS BARANY, hereby submit this statement in support of patentees' Petition for Correction of Inventorship in Patent Under 37 C.F.R. § 1.324(a) and state that I have no disagreement with the requested correction of inventorship, as set forth in this petition, adding George Barany and Robert P. Hammer as co-inventors.

Date: 1/15/02

*Dr. Francis Barany*  
Francis Barany

PATENT  
Docket No.: 19603/441 (CRF D-1593A)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants	:	Barany et al.	}	Examiner:
Patent No.	:	6,027,889		K. Horlick
Issued	:	February 22, 2000		Art Unit:
Serial No.	:	08/864,473		1653
Filed	:	May 28, 1997		
For	:	DETECTION OF NUCLEIC ACID SEQUENCE DIFFERENCES USING COUPLED LIGASE DETECTION AND POLYMERASE CHAIN REACTIONS		

STATEMENT OF MATTHEW LUBIN

Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

I, MATTHEW LUBIN, hereby submit this statement in support of patentees' Petition for Correction of Inventorship in Patent Under 37 C.F.R. § 1.324(a) and state that I have no disagreement with the requested correction of inventorship, as set forth in this petition, adding George Barany and Robert P. Hammer as co-inventors.

Date:

Jan 24, 2002

Matthew B. Lubin  
Matthew Lubin

PATENT  
Docket No.: 19603/441 (CRF D-1593A)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants	: Barany et al.	}	Examiner:
Patent No.	: 6,027,889		K. Horlick
Issued	: February 22, 2000		Art Unit: 1653
Serial No.	: 08/864,473		
Filed	: May 28, 1997		
For	DETECTION OF NUCLEIC ACID SEQUENCE DIFFERENCES USING COUPLED LIGASE DETECTION AND POLYMERASE CHAIN REACTIONS		

**STATEMENT OF JAMES A. SEVERSON ON BEHALF OF  
CORNELL RESEARCH FOUNDATION, INC.**

Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

1. I, James A. Severson, am the President of Cornell Research Foundation, Inc. located at Cornell Business & Technology Park, 20 Thornwood Drive, Suite 105, Ithaca, New York 14850 and have the authority to act on behalf of the Cornell Research Foundation, Inc.

2. As set forth in the assignment forms (copy enclosed), the above-identified patent has been assigned to the Cornell Research Foundation, Inc. The assignment from Francis Barany and Matthew Lubin was recorded in the U.S. Patent and Trademark Office at Reel/Frame No. 8769/0799.

3. Cornell Research Foundation, Inc., as a co-assignee, agrees to the requested correction of inventorship as set forth in the accompanying Petition for Correction of Inventorship in Patent under 37 C.F.R. § 1.324(a).

4. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under

- 2 -

Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the above-identified patent.

Date: x January 17, 2002



James A. Severson

President

20 Thornwood Drive, Suite 105

Ithaca, New York 14850



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

DECEMBER 09, 1997

PTAS

NIXON, HARGRAVE, DEVANS & DOYLE LLP  
MICHAEL L. GOLDMAN  
CLINTON SQUARE  
P.O. BOX 1051  
ROCHESTER, NY 14603



\*100563087A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/23/1997

REEL/FRAME: 8769/0799

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNEE:

BARANY, FRANCIS

DOC DATE: 09/03/1997

ASSIGNEE:

LUBIN, MATTHEW

DOC DATE: 09/05/1997

ASSIGNEE:

CORNELL RESEARCH FOUNDATION, INC.  
20 THORNWOOD DRIVE  
CORNELL BUSINESS & TECHNOLOGY PARK, SUITE 105  
ITHACA, NEW YORK 14850

SERIAL NUMBER: 08864473

FILING DATE: 05/28/1997

PATENT NUMBER:

ISSUE DATE:

JOANN STEWART, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

ENTERED  
NHDD

JAN - 5 1998

FILE 19603/441  
DKT dlf

RECORDATION

11-03-1997

EET

RECEIVED

OCT 23 1997

RECEIPT ACCTING ON  
ase record the attached original

To th Honorable Commissioner  
docum nts r c py th reof:

100563087

10-23-97

## 1. Name of conveying party(ies):

Francis Barany  
Matthew Lubin

## 2. Name and address of receiving party(ies):

CORNELL RESEARCH FOUNDATION, INC.  
Cornell Business & Technology Park  
20 Thornwood Drive, Suite 105  
Ithaca, New York 14850

## 3. Nature of conveyance:

Assignment       Merger  
 Security Agreement       Change of Name  
 Other: \_\_\_\_\_

## Execution Date(s):

1st Inventor: September 3, 1997  
2nd Inventor: September 5, 1997  
3rd Inventor:  
4th Inventor:

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date(s) of the application is(are):

1st (sole) Inventor:  
2nd Inventor:  
3rd Inventor:  
4th Inventor:

A. Patent Application No.(s) 08/864,473

B. Patent No.(s)

ROC10:123169  
19603/441 (CRF D-1593A)

11/03/1997 JSHABAZZ 00000101 08864473  
01 FC:581 40.00 DP

5. Name and address of party to whom correspondence concerning document should be mailed:

Michael L. Goldman  
Nixon, Hargrave, Devans & Doyle LLP  
Clinton Square  
P. O. Box 1051  
Rochester, New York 14603

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$40.00

- [ ] Previously paid (see original transmittal)  
 A check in the amount of \$40.00 is enclosed.

8. Deposit Account Number: 14-1138

- [ ] Charge total fee to account.  
 Charge any additional fees to account.

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Michael L. Goldman

Name of Person Signing

Signature

October 21, 1997

Date

[Total number of pages including cover sheet, attachments and document: 3]

ROC10:123169  
19603/441 (CRF D-1593A)

Certificate of Mailing - 37 CFR 1.8 (a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, on the date below.

10/21/97

Date

Wendy L. Harrold

# ASSIGNMENT

In consideration of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, (I) (we) the undersigned, Francis Barany and Matthew Lubin

Hereby sell, assign and transfer to:

**CORNELL RESEARCH FOUNDATION, INC.**

a corporation of The State of New York, having a place of business at Cornell Business & Technology Park, 20 Thornwood Drive, Suite 105, Ithaca, New York, 14850 its successors, assigns and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, Serial No. 08/864,473 filed May 28 1997, entitled

## DETECTION OF NUCLEIC ACID SEQUENCE DIFFERENCES USING COUPLED LIGASE DETECTION AND POLYMERASE CHAIN REACTIONS

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements;

Agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements, execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date Sept 3, 1997

At. Francis Barany  
Francis Barany  
(L.S.)

Date Sept 5, 1997

Matthew B. Lubin  
Matthew Lubin  
(L.S.)

Date \_\_\_\_\_

\_\_\_\_\_ (L.S.)

PATENT  
Docket No.: 19603/441 (CRF D-1593A)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants	: Barany et al.	}	Examiner:
Patent No.	: 6,027,889		K. Horlick
Issued	: February 22, 2000		Art Unit:
Serial No.	: 08/864,473		1653
Filed	: May 28, 1997		
For	: DETECTION OF NUCLEIC ACID SEQUENCE DIFFERENCES USING COUPLED LIGASE DETECTION AND POLYMERASE CHAIN REACTIONS		

**STATEMENT OF ANTHONY L. STRAUSS ON BEHALF OF REGENTS OF THE  
UNIVERSITY OF MINNESOTA**

Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

1. I, Anthony L. Strauss, am Assistant Vice President of Regents of the University of Minnesota located at 450 McNamara Alumni Center, 200 Oak Street SE, Minneapolis, MN 55455-2070 and have the authority to act on behalf of Regents of the University of Minnesota.

2. As set forth in the assignment form (copy enclosed), the above-identified patent has been assigned to Regents of the University of Minnesota. It is my understanding that the assignment from George Barany to Regents of the University of Minnesota is being filed in the U.S. Patent and Trademark Office at the same time as this paper.

3. Regents of the University of Minnesota, as a co-assignee, agrees to the requested correction of inventorship as set forth in the accompanying Petition for Correction of Inventorship in Patent under 37 C.F.R. § 1.324(a).

4. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and

further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: 6-11-02

Anthony L. Strauss

Anthony L. Strauss  
Assistant Vice President  
Regents of the University of Minnesota

## ASSIGNMENT

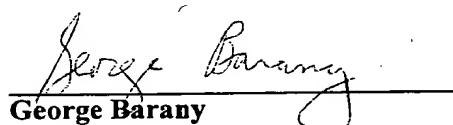
WHEREAS, I, **George Barany**, a United States citizen, residing at 1813 Prior Avenue North, Falcon Heights, Minnesota 55113, have invented certain new and useful improvements in **DETECTION OF NUCLEIC ACID SEQUENCE DIFFERENCES USING COUPLED LIGASE DETECTION AND POLYMERASE CHAIN REACTIONS** for which I have executed an application for Letters Patent in the United States, filed as U.S. Serial No. 08/864,473 on May 28, 1997, which issued as U.S. Patent No. 6,027,889 on February 22, 2000;

AND WHEREAS, Regents of the University of Minnesota, with its principal place of business at 450 McNamara Alumni Center, 200 Oak Street SE, Minneapolis, MN 55455-2070, desires to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, I, the said inventor, do hereby acknowledge that I have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said **Regents of the University of Minnesota**, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and I hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said **Regents of the University of Minnesota**, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant and agree that I will communicate to the said **Regents of the University of Minnesota**, its successors, legal representatives and assigns, any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said **Regents of the University of Minnesota**, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 6<sup>th</sup> day of February, 2002.

  
George Barany

STATE OF MINNESOTA  
COUNTY OF MINNEAPOLIS SS:

This 6<sup>th</sup> day of February, 2002, before me personally came the above-named **George Barany**, to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth.



  
Laurel Maria Corgard  
Notary Public

PATENT  
Docket No.: 19603/441 (CRF D-1593A)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants	:	Barany et al.	}	Examiner:
Patent No.	:	6,027,889		K. Horlick
Issued	:	February 22, 2000		Art Unit:
Serial No.	:	08/864,473		1653
Filed	:	May 28, 1997		
For	:	DETECTION OF NUCLEIC ACID SEQUENCE DIFFERENCES USING COUPLED LIGASE DETECTION AND POLYMERASE CHAIN REACTIONS		

**STATEMENT OF MANI IYER ON BEHALF OF BOARD OF SUPERVISORS OF LOUISIANA STATE UNIVERSITY AND AGRICULTURAL AND MECHANICAL COLLEGE**

Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

1. I, Mani Iyer, am Director of the Office of Intellectual Property of the Board of Supervisors of Louisiana State University and Agricultural and Mechanical College, located at 203 David Boyd Hall, Room 146A, Baton Rouge, LA 70803, and have the authority to act on behalf of Board Of Supervisors Of Louisiana State University And Agricultural And Mechanical College.

2. As set forth in the assignment form (copy enclosed), the above-identified patent has been assigned to Board of Supervisors of Louisiana State University and Agricultural and Mechanical College. It is my understanding that the assignment from Robert P. Hammer to Board of Supervisors of Louisiana State University and Agricultural and Mechanical College is being filed in the U.S. Patent and Trademark Office at the same time as this paper.

3. Board of Supervisors of Louisiana State University and Agricultural and Mechanical College, as a co-assignee, agrees to the requested correction of inventorship

as set forth in the accompanying Petition for Correction of Inventorship in Patent under 37 C.F.R. § 1.324(a).

4. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: 5/28/02

  
Mani Iyer  
Director of the Office of Intellectual Property  
Board of Supervisors of Louisiana State University and Agricultural and Mechanical College

## ASSIGNMENT

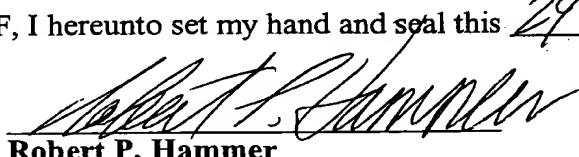
WHEREAS, I, **Robert P. Hammer**, a United States citizen, residing at 4967 Tulane Drive, Baton Rouge, Louisiana 70808, have invented certain new and useful improvements in **DETECTION OF NUCLEIC ACID SEQUENCE DIFFERENCES USING COUPLED LIGASE DETECTION AND POLYMERASE CHAIN REACTIONS** for which I have executed an application for Letters Patent in the United States, filed as U.S. Serial No. 08/864,473 on May 28, 1997, which issued as U.S. Patent No. 6,027,889 on February 22, 2000;

AND WHEREAS, **Board of Supervisors of Louisiana State University and Agricultural and Mechanical College**, with its principal place of business at 203 David Boyd Hall, Baton Rouge, Louisiana 70803, desires to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, I, the said inventor, do hereby acknowledge that I have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said **Board of Supervisors of Louisiana State University and Agricultural and Mechanical College**, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and I hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said **Board of Supervisors of Louisiana State University and Agricultural and Mechanical College**, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant and agree that I will communicate to the said **Board of Supervisors of Louisiana State University and Agricultural and Mechanical College**, its successors, legal representatives and assigns, any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said **Board of Supervisors of Louisiana State University and Agricultural and Mechanical College**, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 24<sup>th</sup> day of May, 2002.



Robert P. Hammer

STATE OF Louisiana  
COUNTY OF East Baton Rouge:

This 24 day of May, 2002, before me personally came the above-named **Robert P. Hammer**, to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth.



Notary Public

**THERESA MOONEY**

NOTARY PUBLIC

EAST BATON ROUGE PARISH LA  
MY COMMISSION IS FOR LIFE

**RECORDATION FORM COVER SHEET**  
**PATENTS ONLY**

**To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof:**

1. Name of conveying party(ies):  <b>George Barany</b>	2. Name and address of receiving party(ies):  <b>Regents of the University of Minnesota 450 McNamara Alumni Center 200 Oak Street SE Minneapolis, MN 55455-2070</b>
3. Nature of conveyance:  <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: _____	
Execution Date(s):  1st (sole) Inventor: <b>February 6, 2002</b> 2nd Inventor: 3rd Inventor: 4th Inventor:  Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date(s) of the application is(are):  1st (sole) Inventor: 2nd Inventor: 3rd Inventor: 4th Inventor:  A. Patent Application No.(s):  B. Patent No.(s): <b>6,027,889</b>	

Page 1 of 2

5. Name and address of party to whom correspondence concerning document should be mailed:

**Michael L. Goldman**  
**NIXON PEABODY LLP**  
**Clinton Square**  
**P.O. Box 31051**  
**Rochester, New York 14603-1051**

6. Total number of applications and patents involved: **1**

7. Total fee (37 CFR 3.41): **\$40.00**

Previously paid (see original transmittal)  
 A check in the amount of **\$40.00** is enclosed.

8. Deposit Account Number: **14-1138**

Charge total fee to account.  
 Charge any additional fees to account.

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Date: June 26, 2002



**Michael L. Goldman**  
**Registration No. 30,727**

[Total number of pages including cover sheet, attachments and document: **3**]

## ASSIGNMENT

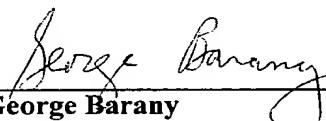
WHEREAS, I, George Barany, a United States citizen, residing at 1813 Prior Avenue North, Falcon Heights, Minnesota 55113, have invented certain new and useful improvements in **DETECTION OF NUCLEIC ACID SEQUENCE DIFFERENCES USING COUPLED LIGASE DETECTION AND POLYMERASE CHAIN REACTIONS** for which I have executed an application for Letters Patent in the United States, filed as U.S. Serial No. 08/864,473 on May 28, 1997, which issued as U.S. Patent No. 6,027,889 on February 22, 2000;

AND WHEREAS, Regents of the University of Minnesota, with its principal place of business at 450 McNamara Alumni Center, 200 Oak Street SE, Minneapolis, MN 55455-2070, desires to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, I, the said inventor, do hereby acknowledge that I have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said Regents of the University of Minnesota, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and I hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said Regents of the University of Minnesota, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant and agree that I will communicate to the said Regents of the University of Minnesota, its successors, legal representatives and assigns, any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said Regents of the University of Minnesota, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 6<sup>th</sup> day of February, 2002.

  
George Barany

STATE OF MINNESOTA  
COUNTY OF MINNEAPOLIS SS:

This 6<sup>th</sup> day of February, 2002, before me personally came the above-named George Barany, to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth.



R549457.1  
19603/441 (CRF D-1593A)

  
Laurel Maria Corgard  
Notary Public

## RECORDATION FORM COVER SHEET

### PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof:

<p>1. Name of conveying party(ies): <b>Robert P. Hammer</b></p> <p>3. Nature of conveyance: [X] Assignment [ ] Merger [ ] Security Agreement [ ] Change of Name [ ] Other: _____</p> <p>Execution Date(s): 1st (sole) Inventor: <b>May 24, 2002</b> 2nd Inventor: 3rd Inventor: 4th Inventor:</p>	<p>2. Name and address of receiving party(ies): <b>Board of Supervisors of Louisiana State University and Agricultural and Mechanical College 203 David Boyd Hall Baton Rouge, Louisiana 70803</b></p> <p>4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date(s) of the application is(are):</p> <p>1st (sole) Inventor: 2nd Inventor: 3rd Inventor: 4th Inventor:</p> <p>A. Patent Application No.(s): B. Patent No.(s): <b>6,027,889</b></p>
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Page 1 of 2

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<p><b>Michael L. Goldman</b>  <b>NIXON PEABODY LLP</b>  <b>Clinton Square</b>  <b>P.O. Box 31051</b>  <b>Rochester, New York 14603-1051</b></p>	
<p>7. Total fee (37 CFR 3.41): <b>\$40.00</b></p> <p><input type="checkbox"/> Previously paid (see original transmittal)</p> <p><input checked="" type="checkbox"/> A check in the amount of <b>\$40.00</b> is enclosed.</p>	
<p>8. Deposit Account Number: 14-1138</p> <p><input type="checkbox"/> Charge total fee to account.</p> <p><input checked="" type="checkbox"/> Charge any additional fees to account.</p>	

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9. Statement and signature.  
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Date: June 26, 2002



**Michael L. Goldman**  
**Registration No. 30,727**

[Total number of pages including cover sheet, attachments and document: 3]

## ASSIGNMENT

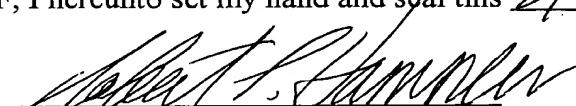
WHEREAS, I, **Robert P. Hammer**, a United States citizen, residing at 4967 Tulane Drive, Baton Rouge, Louisiana 70808, have invented certain new and useful improvements in **DETECTION OF NUCLEIC ACID SEQUENCE DIFFERENCES USING COUPLED LIGASE DETECTION AND POLYMERASE CHAIN REACTIONS** for which I have executed an application for Letters Patent in the United States, filed as U.S. Serial No. 08/864,473 on **May 28, 1997**, which issued as U.S. Patent No. 6,027,889 on **February 22, 2000**;

AND WHEREAS, **Board of Supervisors of Louisiana State University and Agricultural and Mechanical College**, with its principal place of business at 203 David Boyd Hall, Baton Rouge, Louisiana 70803, desires to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, I, the said inventor, do hereby acknowledge that I have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said **Board of Supervisors of Louisiana State University and Agricultural and Mechanical College**, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof, and I hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said **Board of Supervisors of Louisiana State University and Agricultural and Mechanical College**, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

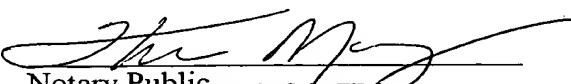
AND I HEREBY covenant and agree that I will communicate to the said **Board of Supervisors of Louisiana State University and Agricultural and Mechanical College**, its successors, legal representatives and assigns, any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said **Board of Supervisors of Louisiana State University and Agricultural and Mechanical College**, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 24<sup>th</sup> day of May, 2002.

  
Robert P. Hammer

STATE OF Louisiana  
COUNTY OF East Baton Rouge

This 24 day of May, 2002, before me personally came the above-named **Robert P. Hammer**, to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth.

  
Notary Public  
**THERESA MOONEY**  
NOTARY PUBLIC  
EAST BATON ROUGE PARISH LA  
MY COMMISSION IS FOR LIFE